ASCORLIGHT
SUNLIGHT SERIES 800

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Ascorlight Sunlight Series 800 Electronic Flash System

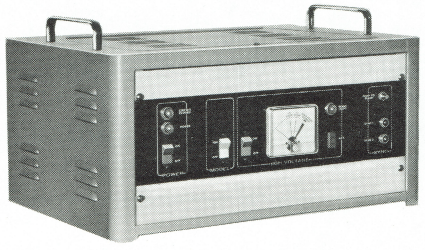
The Ascorlight Sunlight Series 800 is a high powered electronic flash system that has been the industry's standard for over 25 years. Sunlight equipment was conceived and designed primarily for the large set color photographic studios. However, applications have spread to the medical, scientific, sports art, journalistic (magazine), graphic arts and fashion industries. High light output and short flash duration makes this system unique. It can stop extremely fast action, yields the best quality color transparencies, as has been proven time and again at the countries largest studios, race tracks, and sports arena facilities. Composed of three basic components and backed with a modular designed concept, this system can be tailored to control any lighting situation. In combination, these components can deliver from 800 watt-seconds (25,000 BCPS/60 degrees) with one light up to 40,000 watt-seconds (750,000 BCPS/60 degrees) with multiple lighting arrangements.

THE SUNLIGHT SUPER MASTER POWER SUPPLY

Important features which are inherent with the Sunlight power supply are the following:

- Complete solid state circuitry which eliminates warm up time and tube replacement.
- Low voltage safety interlock.
- Constant current charging with no overload on 40 amp., 117 volt line.
- Automatic resetting and automatic current control prevents damaging peak currents.
- Voltage regulation provides automatic light stabilization.
- Recessed connectors for smooth, non-snag surface.
- A special low voltage solid state trigger circuit protects the camera shutter and provides reliable triggering even at fast flashing rates.
- Locking microphone type connectors are used on the power supply to prevent misfiring due to loose connections.
- Two sync connectors are provided for multiple camera operations or photo slave assembly off the same power control center.
- Two power outlets are provided for lighting ratio control.
- Ready light indicates 100% charge with provisions for an optional extension ready light.
- Charging time is ½ second per 800 watt-seconds to 100% capacity (eg. six, 800 watt-second condenser units to 100% capacity in three seconds.) Light output meter shows amount of light available during recycling.

The Sunlight Super Master power supply is the control center of the Sunlight Series 800 system. This power supply recycles the condensers connected and functions to maintain proper voltage regulation. By means of advanced solid state design, the power supply converts 117 Volts A.C. power to high voltage D.C. suitable for flash operation, and maintains constant light output regardless of input-line voltage fluctuations. In addition, it serves as a control center for the various operational functions.

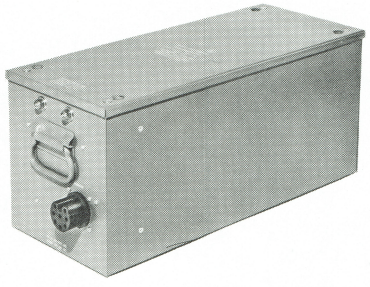


Super Master Power Supply

The Super Master power supply is the latest in a long series of Sunlight components dating back to 1947. Years of research and actual usage by top photographers, under the most demanding professional conditions, have made the Sunlight unique in its field.

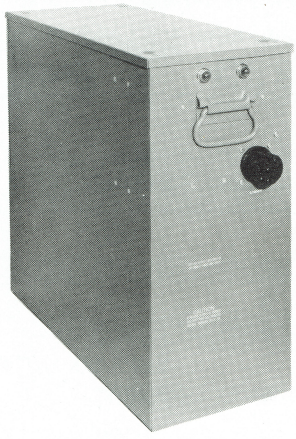
CONDENSERS

These are modular, electrical energy storage units. A number of combinations can be employed to derive the desired energy output by interconnecting these units into banks. There are



800 watt-second Condenser

800 and 2400 watt-second capacity condensers available which can be interconnected to provide up to 40,000 watt-seconds, depending on the light



2400 watt-second Condenser

head and flash tube used. Designed with automatic safety interlock and discharge circuitry, the system will not operate unless all connectors are sealed off. Weather proof rubber connectors assure operation even under severe environmental conditions. Indicator lights on each condenser bank give a visual read-out of the state of change of the condenser. The condenser units can be stacked on top of each other for maximum power in minimum space. Special recesses on top of the condensers prevent slipping when stacked.

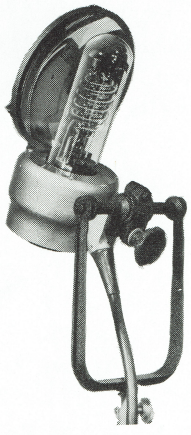
LIGHT UNITS

Depending upon the power input, there are two types of light units available. The standard light head can be used with up to four condenser banks with a maximum load of 3200 watt-seconds.

It has an on-off modeling lamp switch along with a ratio control numbered 1 through 4 to match the modeling light output to number of condenser banks used. The light pattern from the flash and modeling lamp is is precisely controlled by mathematically computed placement of the lamps within the reflector assembly. Careful consideration to optical design has been a trademark of all Ascor products, insuring outstanding light distribution and optimum light efficiency. Both the modeling lamp and flashtube are user-replaceable. There are 10" and 14" bayonet type bowl reflectors available for this light unit. The 10" bowl reflector can be ordered with an additional hole drilled that will accomodate an umbrella for bounce lighting.

Sunlight standard light for up to 3,200 watt-seconds

A second high powered light head differs from the standard light in a few respects. This light unit can be used with up to fifty 800 watt-second condenser banks with a maximum of 40,000 watt-seconds of electrical energy. This light is not equipped with modeling light

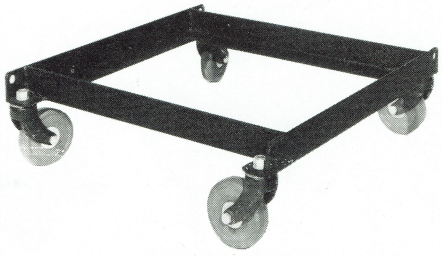


Sunlight high power light for up to 40,000 watt-seconds

provisions. However, with the normally available 9" spherical type reflector, it yields a broad pattern of light with effects that simulate direct sunlight. In addition, there are also 10" and 14" bayonet type reflectors available for this light unit, depending on the lighting effect desired.

ACCESSORIES

A dolly is available in order to facilitate movement of condenser units within the studio area. It will accept up to six 800 watt-seconds condenser banks. The power supply may be placed on these stacked condensers by means of a Platform Adapter. In addition to serving a function as a platform for the power supply, it also aids in stabilizing the condensers.



Condensers and Power Supply can be mounted on this Dolly for mobility.

Barndoors are available for the 10" and 14" reflectors. These can aid in further controlling the light pattern from the Sunlight. There is also a photo slave device that enables remote tripping of the Sunlight equipment from other electronic flash units. Please consult the latest Sunlight Price List for a complete list of accessories.

LIGHT OUTPUT DATA

With the Sunlight modular design concept, it is possible to add condenser banks to achieve the desired light output necessary.

From the table below, you can easily find the BCPS required and match it with the power (watt-seconds) necessary. Included for your information is the flash duration and Guide Numbers for an ASA of 100.

080-102 Condensers	Watt Seconds	BCPS/60°W/14" Reflector, Standard Light System	Flash Duration	Guide No. ASA 100
1	800	25,000	1/4350	400
2	1600	50,000	1/3000	560
3	2400	75,000	1/2800	690
4	3200	100,000	1/1250	800
	BCPS/60° w/14" Reflector, High Power Light			
6	4800	90,000	1/830	750
8	6400	120,000	1/770	870
10	8000	150,000	1/600	980
12	9600	180,000	1/550	1070
18	15200	270,000	1/400	1300
24	19200	360,000	1/285	1500
36	28800	450,000	1/210	1700
48	38400	720,000	1/125	2100

SUNLIGHT POWER SUPPLY SPECIFICATIONS

Maximum power handling capacity: 40,000 watt-seconds.

Power Required: 117 volt, 60 HZ. 40 amp.

Recycle time to 100% charge: ½ second per 800 watt-seconds condenser.

High voltage level: 4000 volts.

Duty Cycle: Continuous

Ready Light: 100% charge

Voltage Regulation: Constant to within ± 1%

Charging Rate: Will charge each 800 watt second in ½ second.

Flash Duration: See table

Protective Devices: Two 25 amp fuse type ABC, one 4 amp MDX, one 1¼ amp MDX

Size: 22" wide x 16" deep x 11½" high

Weight: 100 lbs.

CONDENSERS

(Two capacities are available.)

Size: 800 Watt-Second — 21-3/8" wide x 8-7/8" deep x 9-3/8" high.

Weight: 60 lbs.

Size: 2400 Watt-Second — 21-3/8" wide x 8-7/8" deep x 19-3/4" high.

Weight: 120 lbs.

Specifications subject to change without notice.

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